The communication unit **170** is a configuration for transmitting and receiving data to and from a variety of electronic devices. The theater parameter management apparatus **100** may transmit and receive data to and from the input device or a variety of external electronic devices through the communication unit **170**.

Meanwhile, the communication unit **170** may be implemented in a variety of forms capable of transmitting and receiving data wiredly or wirelessly and may be controlled by the data processing unit **150**.

Hereinafter, a theater parameter management method according to an embodiment of the present invention will be described.

First, the theater parameter management method according to an embodiment of the present invention may include a step (step a) of receiving information related to the structure of a theater by the theater parameter management apparatus.

In addition, the theater parameter management method may further include, after step a, a step (step b) of creating parameters showing the structure of the theater based on the input information by the theater parameter management apparatus.

In addition, the theater parameter management method may further include, after step b, a step (step c) of storing the created parameters by the theater parameter management apparatus.

In addition, the theater parameter management method may further include, after step c, a step (step d) of performing a data processing using the stored parameters by the theater parameter management apparatus.

Meanwhile, after being implemented in the form of a program, the theater parameter management method can be stored in a recoding medium that can be read by an electronic device or transmitted and received through a communication network. In addition, the theater parameter management method can be stored temporarily or permanently in a variety of electronic devices after being implemented in the form of a program.

Although its category is different, the theater parameter management method may include features practically the same as those of the theater parameter management apparatus according to an embodiment of the present invention. Accordingly, the features described above in relation to the theater parameter management apparatus may be easily inferred and applied to the theater parameter management method.

While the present invention has been described with reference to the particular illustrative embodiments, it is not to be restricted by the embodiments but only by the appended claims. It is to be appreciated that those skilled in the art can change or modify the embodiments without departing from the scope and spirit of the present invention.

The invention claimed is:

1. A theater parameter management apparatus comprising:
- a parameter creation unit configured to create parameters showing a structure of a theater based on input information;
- a database configured to store the parameters created by the parameter creation unit; and
- a data processing unit configured to perform a data processing using the parameters stored in the database.

2. The apparatus according to claim **1**, wherein the
- theater is a multi-projection theater having a plurality of projection surfaces for providing images through the plurality of projection surfaces, and
- the data processing unit is configured to create or correct the images to be played back on the plurality of projection surfaces using the parameters stored in the database.

3. The apparatus according to claim **1**, wherein
- the theater is a multi-projection theater having a plurality of projection surfaces for providing images through the plurality of projection surfaces, and
- the data processing unit is configured to process, based on the parameters stored in the database, a simulation of a view of providing the images on the plurality of projection surfaces of the theater.

4. The apparatus according to claim **2**, wherein the plurality of projection surfaces includes a main screen and structure surfaces.

5. The apparatus according to claim **1**, wherein the parameter creation unit is configured to create a parameter showing a size of the theater, a parameter showing arrangement of a main screen, a parameter showing arrangement of audience seats, or a parameter showing arrangement of projectors.

6. The apparatus according to claim **5**, wherein
- the parameter creation unit is configured to create the parameter showing a size of the theater, and
- the created parameter showing a size of the theater includes a parameter showing a width of the theater, a parameter showing a height of the theater, and a parameter showing a depth of the theater.

7. The apparatus according to claim **5**, wherein
- the parameter creation unit is configured to create the parameter showing arrangement of a main screen, and
- the created parameter showing arrangement of a main screen includes a parameter showing a ratio of the main screen, a parameter showing a screen top offset of the main screen, a parameter showing a screen left offset of the main screen, and a parameter showing a screen right offset of the main screen.

8. The apparatus according to claim **5**, wherein
- the parameter creation unit is configured to create the parameter showing arrangement of audience seats, and
- the created parameter showing arrangement of audience seats includes a parameter showing a front depth of the audience seats, a parameter showing a rear depth of the audience seats, and a parameter showing a rear height of the audience seats.

9. The apparatus according to claim **5**, wherein
- the parameter creation unit is configured to create the parameter showing arrangement of the projectors, and
- the created parameter showing arrangement of the projectors includes a parameter showing the number of projectors arranged in a first row, a parameter showing the number of projectors arranged in a second row, a parameter showing the number of projectors arranged in a third row, and a parameter showing the number of projectors arranged in a fourth row.

10. The apparatus according to claim **1**, wherein the parameter creation unit is configured to create parameters showing a material or a color of a projection surface.

11. The apparatus according to claim **10**, wherein the data processing unit is configured to correct an image projected on a main screen or an image projected on a structure surface considering information on difference of color or difference of material between the main screen and the structure surface.

12. The apparatus according to claim **10**, wherein the data processing unit is configured to correct images projected on